

What is Claimed is:

1. A light-up accessory, comprising:

a power supply;

5 a connecting chain comprising a tubular shelter and at least a terminal received in said tubular shelter and extended therealong to electrically connect with said power supply; and

a plurality of elementary building units alignedly mounted along said connecting chain, wherein each of said elementary building units comprises:

10 a supporting case having an outer light-transmissible surface and a chaining passageway longitudinally extended through said supporting case such that said connecting chain is slidably extended through said chaining passageway to slidably mount said supporting case along said connecting chain;

15 a lighting system, which is disposed in said supporting case, comprising an illuminating unit and a print circuit board electrically connected with said illuminating unit for controlling said illuminating unit to illuminate to outside through said light-transmissible surface of said supporting case; and

20 an operating system comprising at least an operating member electrically extended from said printed circuit board, wherein said operating member is arranged to penetrate through said tubular shelter to electrically contact with said terminal so as to electrically connect said illuminating unit with said power supply and to substantially retain said supporting case along said connecting chain in position.

25 2. The light-up accessory, as recited in claim 1, wherein each of said supporting cases comprises a lower base and an upper housing supporting said lighting system therewithin, wherein said chaining passageway is longitudinally extended through said lower base in such a manner that when said upper housing is mounted on said lower base, said operating member is extended into said chaining passageway to penetrate through said tubular shelter so as to electrically contact with said terminal.

3. The light-up accessory, as recited in claim 2, wherein said lower base has at least a cutting slot transversely formed thereon to communicate with said chaining passageway such that when said upper housing is securely mounted on said lower base, said operating member is guided to extend into said chaining passageway through said cutting slot.

4. The light-up accessory, as recited in claim 1, wherein said operating member comprises a conducting member downwardly extended from said printed circuit board, wherein said conducting member has two spaced apart cutting members to define a receiving gap therebetween such that when said cutting members penetrate through said tubular shelter, said terminal is positioned within said receiving gap to electrically contact with said conducting member for preventing said terminal from being cut off by said operating member.

5. The light-up accessory, as recited in claim 3, wherein said operating member comprises a conducting member downwardly extended from said printed circuit board, wherein said conducting member has two spaced apart cutting members to define a receiving gap therebetween such that when said cutting members penetrate through said tubular shelter, said terminal is positioned within said receiving gap to electrically contact with said conducting member for preventing said terminal from being cut off by said operating member.

6. The light-up accessory, as recited in claim 4, wherein each of said cutting members has a tapered end such that an opening of said receiving gap formed between said two tapered ends of said cutting members is enlarged to receive said terminal within said receiving gap through said opening thereof when said cutting members penetrate through said tubular shelter.

7. The light-up accessory, as recited in claim 5, wherein each of said cutting members has a tapered end such that an opening of said receiving gap formed between said two tapered ends of said cutting members is enlarged to receive said terminal within said receiving gap through said opening thereof when said cutting members penetrate through said tubular shelter.

8. The light-up accessory, as recited in claim 2, wherein each of said elementary building units further has at least a holding slot, having a holding tooth

transversely formed on said lower base and comprises at least a fastening arm, having at least an engaging tooth, slidably inserted into said holding slot in such a manner that when said engaging tooth of said fastening arm is engaged with said holding tooth of said holding slot, said upper housing is securely mounted on said lower base.

5 9. The light-up accessory, as recited in claim 5, wherein each of said elementary building units further has at least a holding slot, having a holding tooth transversely formed on said lower base and comprises at least a fastening arm, having at least an engaging tooth, slidably inserted into said holding slot in such a manner that when said engaging tooth of said fastening arm is engaged with said holding tooth of said
10 holding slot, said upper housing is securely mounted on said lower base.

 10. The light-up accessory, as recited in claim 7, wherein each of said elementary building units further has at least a holding slot, having a holding tooth transversely formed on said lower base and comprises at least a fastening arm, having at least an engaging tooth, slidably inserted into said holding slot in such a manner that
15 when said engaging tooth of said fastening arm is engaged with said holding tooth of said holding slot, said upper housing is securely mounted on said lower base.

 11. The light-up accessory, as recited in claim 1, wherein said power supply comprises a power hub having a battery cavity for receiving a replaceable battery as a power source therein to supply a DC power and a lighting switch operatively connected
20 to said connecting chain to selectively control said elementary building units in an on and off manner.

 12. The light-up accessory, as recited in claim 3, wherein said power supply comprises a power hub having a battery cavity for receiving a replaceable battery as a power source therein to supply a DC power and a lighting switch operatively connected
25 to said connecting chain to selectively control said elementary building units in an on and off manner.

 13. The light-up accessory, as recited in claim 10, wherein said power supply comprises a power hub having a battery cavity for receiving a replaceable battery as a power source therein to supply a DC power and a lighting switch operatively connected
30 to said connecting chain to selectively control said elementary building units in an on and off manner.

14. The light-up accessory, as recited in claim 11, wherein said power supply further comprises an electric connector mounted at an end of said tubular shelter to electrically connect with said terminal and an electric adapter provided at said power hub for electrically connecting with said power source, wherein said electric connector is detachably connected to said electric adapter such that said connecting chain is detachably connected with said power supply.

15. The light-up accessory, as recited in claim 12, wherein said power supply further comprises an electric connector mounted at an end of said tubular shelter to electrically connect with said terminal and an electric adapter provided at said power hub for electrically connecting with said power source, wherein said electric connector is detachably connected to said electric adapter such that said connecting chain is detachably connected with said power supply.

16. The light-up accessory, as recited in claim 13, wherein said power supply further comprises an electric connector mounted at an end of said tubular shelter to electrically connect with said terminal and an electric adapter provided at said power hub for electrically connecting with said power source, wherein said electric connector is detachably connected to said electric adapter such that said connecting chain is detachably connected with said power supply.

17. The light-up accessory, as recited in claim 1, wherein said elementary building units are electrically connected with said power supply in a serial connection.

18. The light-up accessory, as recited in claim 16, wherein said elementary building units are electrically connected with said power supply in a serial connection.

19. The light-up accessory, as recited in claim 1, wherein each of said illuminating units comprises a Light Emitting Diode, having a predetermined range of illuminating parameters, electrically built-in with said printed circuit board for generating a light effect.

20. The light-up accessory, as recited in claim 18, wherein each of said illuminating units comprises a Light Emitting Diode, having a predetermined range of illuminating parameters, electrically built-in with said printed circuit board for generating a light effect.